854. K-Similar Strings <Hard>

int kSimilarity(string A, string B) {

queue<pair<string, int>> q;

int n = A.size();

q.push({A, 0});

unordered\_set<string> vis;

while (!q.empty()) {

string C = q.front().first;

int count = q.front().second;

q.pop();

if(C == B)

return count;

if (vis.find(C) != vis.end())

continue;

vis.insert(C);

int i = 0;

while (C[i] == B[i])

i++;

for (int j = i + 1; j < n; ++j) {

string temp = C;

if (B[j] == temp[i] && B[j] != temp[j]) {

swap(temp[i], temp[j]);

q.push({temp, count + 1});

}

}

}

return -1;

}